

AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:13:22 ON 10 FEB 2003

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:13:28 ON 10 FEB 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

DICTIONARY FILE UPDATES: 7 FEB 2003 HIGHEST RN 487578-67-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e tris(oxalato)phosphate

E1	2	TRIRUTHENIUMTUNGSTEN/BI
E2	350900	TRIS/BI
E3	0 -->	TRIS(OXALATO)PHOSPHATE/BI
E4	1	TRISABBREVIATIN/BI
E5	7	TRISACCHARIDE/BI
E6	1	TRISACCHARIN/BI
E7	1	TRISACCHARINATE/BI
E8	6	TRISACET/BI
E9	1	TRISACETATE/BI

```
E10      1      TRISACETATO/BI
E11      3      TRISACETO/BI
E12      1      TRISACETOACET/BI
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=> s e3

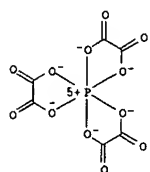
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      350900 "TRIS"/BI
      2264 "OXALATO"/BI
      170869 "PHOSPHATE"/BI
L1      3 "TRIS(OXALATO)PHOSPHATE"/BI
      (( "TRIS" (W) "OXALATO" (W) "PHOSPHATE" ) /BI)
```

=> select e3

```
ENTER ANSWER SET OR SMARTSELECT L# OR (L1):11
ENTER ANSWER NUMBER OR RANGE (1-):1
'E3' IS NOT A VALID FIELD CODE FOR FILE 'REGISTRY'
The following are valid field codes:
AF ----- Alternate Molecular Formula
AR ----- Alternate Registry Number
CCI ----- Component Substance Class Identifier
CHEM ----- CAS Registry Numbers and Selected Names
CI ----- Substance Class Identifier
CMF ----- Component Molecular Formulas
CN ----- Chemical Names (Up to 50)
CRN ----- Component Registry Numbers
DEF ----- Definition
DR ----- Deleted Registry Number
EA ----- Elemental Analysis for Ring System
ES ----- Elemental Sequence for Ring System
FCN ----- All Chemical Names
FS ----- File Segment
IN ----- CA Index Name
LC ----- CAS Registry Number Locator
MF ----- Molecular Formula
NAME ----- Selected Substance Names
PCT ----- Polymer Class Term
PR ----- Preferred Registry Number
PN ----- Patent Number
RF ----- Ring System Formula
RID ----- Ring Identifier
RN ----- CAS Registry Number
RR ----- Replacing Registry Number
SCN ----- Short Chemical Name (IN and OTHER NAMES)
SEQ ----- Protein Sequence Display using 1 Letter Amino Acid Codes (default)
SEQ3 ----- Protein Sequence Display using 3 Letter Amino Acid Codes
SQEFP --- Protein Sequence (exact family search form)
SQEN --- Nucleic Acid Sequence (exact search form)
SQEP --- Protein Sequence (exact search form)
SQSFP --- Protein Sequence (subsequence family search form)
SQSN --- Nucleic Acid Sequence (subsequence search form)
SQSP --- Protein Sequence (subsequence search form)
SR ----- Source of Registration
SZ ----- Size for Ring System
ENTER DISPLAY CODE (CHEM) OR ?:end
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=> d scan 11

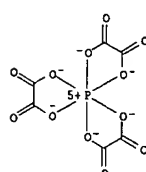
L1 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Phosphate(1-), tris[ethanedioato(2-)-.kappa.O1,.kappa.O2]-, lithium,
 (OC-6-11)- (9CI)
 MF C6 O12 P . Li
 CI CCS



● Li⁺

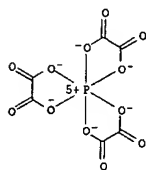
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L1 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Phosphate(1-), tris[ethanedioato(2-)-.kappa.O1,.kappa.O2]-, hydrogen,
 (OC-6-11)- (9CI)
 MF C6 O12 P . H
 CI CCS



● H⁺

L1 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Phosphate(1-), tris[ethanedioato(2-)-.kappa.O1,.kappa.O2]-, sodium,
 (OC-6-11)- (9CI)
 MF C6 O12 P . Na
 CI CCS



● Na⁺

ALL ANSWERS HAVE BEEN SCANNED

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.26

14.47

FILE 'CAPLUS' ENTERED AT 08:15:34 ON 10 FEB 2003

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FILE COVERS 1907 - 10 Feb 2003 VOL 138 ISS 7

FILE LAST UPDATED: 7 Feb 2003 (20030207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s tris(oxalato)phosphate

MISSING OPERATOR 'TRIS(OXALATO)'

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s tris oxalato phosphate

102177 TRIS

2983 OXALATO

472282 PHOSPHATE

104411 PHOSPHATES

513566 PHOSPHATE

(PHOSPHATE OR PHOSPHATES)

L2 2 TRIS OXALATO PHOSPHATE

(TRIS(W)OXALATO(W)PHOSPHATE)

=> d 12 1-2

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 2002:573361 CAPLUS
DN 137:125303
TI Manufacture of (all-rac)-.alpha.-tocopherol
IN Bonrath, Werner; Netscher, Thomas; Wietelmann, Ulrich
PA Roche Vitamins A.-G., Switz.
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1227089	A1	20020731	EP 2002-764	20020114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002284776	A2	20021003	JP 2002-5681	20020115
CN 1365977	A	20020828	CN 2002-102027	20020117
US 2002161247	A1	20021031	US 2002-53297	20020117
PRAI EP 2001-101026	A	20010118		
OS CASREACT 137:125303				

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 2001:78395 CAPLUS
DN 134:125211
TI Triis(oxalato)phosphates, method for their preparation and their use
IN Wietelmann, Ulrich; Schade, Klaus; Lischka, Uwe
PA Chemetall G.m.b.H., Germany
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001007450	A1	20010201	WO 2000-EP4301	20000512
W: CA, CN, JP, KR, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19933898	A1	20010201	DE 1999-19933898	19990722
EP 1203001	A1	20020508	EP 2000-925279	20000512
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PRAI DE 1999-19933898	A	19990722		
WO 2000-EP4301	W	20000512		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs hitstr l2 1-2

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:573361 CAPLUS
DOCUMENT NUMBER: 137:125303
TITLE: Manufacture of (all-rac)-.alpha.-tocopherol
INVENTOR(S): Bonrath, Werner; Netscher, Thomas; Wietelmann, Ulrich
PATENT ASSIGNEE(S): Roche Vitamins A.-G., Switz.
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1227089	A1	20020731	EP 2002-764	20020114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002284776	A2	20021003	JP 2002-5681	20020115
CN 1365977	A	20020828	CN 2002-102027	20020117
US 2002161247	A1	20021031	US 2002-53297	20020117
PRIORITY APPLN. INFO.: EP 2001-101026 A 20010118				
OTHER SOURCE(S): CASREACT 137:125303				
AB A process for the manuf. of (.+-.)-.alpha.-tocopherol by the catalyzed reaction of trimethylhydroquinone with isophytol or phytol is characterized by carrying out the reaction in the presence of hydrogen tris(oxalato)phosphate, or an adduct thereof with a solvent, as the catalyst in an org. solvent. The product of the process is the most active and industrially most important member of the vitamin E group.				
REFERENCE COUNT:	3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:78395 CAPLUS
DOCUMENT NUMBER: 134:125211
TITLE: Tris(oxalato)phosphates,
method for their preparation and their use
INVENTOR(S): Wietelmann, Ulrich; Schade, Klaus; Lischka, Uwe
PATENT ASSIGNEE(S): Chemetall G.m.b.H., Germany
SOURCE: ECT Int. Appl., 29 pp.
CODEN: FIKX02
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001007450	A1	20010201	WO 2000-EP4301	20000512
V: CA, CN, JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19933898	A1	20010201	DE 1999-19933898	19990722
EP 1203001	A1	20020508	EP 2000-925279	20000512
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PRIORITY APPLN. INFO.: DE 1999-19933898 A 19990722				
WO 2000-EP4301 W 20000512				
AB The invention relates to tris(oxalato)phosphates, M[F(C2O4)3] (M = H, metal, N(R1R2R3R4), R1, R2, R3, R4 = independently H, C1-8 alkyl group). The invention also relates to a method for prep. such compds. as well as to their use.				
REFERENCE COUNT:	3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

=> s 11

L3 2 L1

=> s 3 not 12

<-----User Break----->

SEARCH ENDED BY USER

=> s 13 not 12

L4 0 L3 NOT L2

=> s catalyst

613081 CATALYST

604642 CATALYSTS

L5 783840 CATALYST

(CATALYST OR CATALYSTS)

=> s 15 and borate

54641 BORATE

9372 BORATES

58405 BORATE

(BORATE OR BORATES)

L6 4526 L5 AND BORATE

=> s 16 and phosphate

472282 PHOSPHATE

104411 PHOSPHATES

513566 PHOSPHATE

(PHOSPHATE OR PHOSPHATES)

L7 450 L6 AND PHOSPHATE

=> s 17 and tocopherol

24328 TOCOPHEROL

6667 TOCOPHEROLS

26231 TOCOPHEROL

(TOCOPHEROL OR TOCOPHEROLS)

L8 0 L7 AND TOCOPHEROL

=> s 12 and phosphate III

472282 PHOSPHATE

104411 PHOSPHATES

513566 PHOSPHATE

(PHOSPHATE OR PHOSPHATES)

932542 III

189 IIIS

932637 III

(III OR IIIS)

1512 PHOSPHATE III

(PHOSPHATE(W)III)

L9 0 L2 AND PHOSPHATE III

=> s bis oxalato borate

392916 BIS

2 BISES

392917 BIS

(BIS OR BISES)

2983 OXALATO


```

      54641 BORATE
      9372 BORATES
      58405 BORATE
            (BORATE OR BORATES)
L10      17 BIS OXALATO BORATE
            (BIS (W) OXALATO (W) BORATE)

=> s l1 and catalyst
      2 L1
      613081 CATALYST
      604642 CATALYSTS
      783840 CATALYST
            (CATALYST OR CATALYSTS)
L11      1 L1 AND CATALYST

=> s l10 and catalyst
      613081 CATALYST
      604642 CATALYSTS
      783840 CATALYST
            (CATALYST OR CATALYSTS)
L12      3 L10 AND CATALYST

=> s l2 and bis oxalato borate
      392916 BIS
      2 BISES
      392917 BIS
            (BIS OR BISES)
      2983 OXALATO
      54641 BORATE
      9372 BORATES
      58405 BORATE
            (BORATE OR BORATES)
      17 BIS OXALATO BORATE
            (BIS (W) OXALATO (W) BORATE)
L13      0 L2 AND BIS OXALATO BORATE

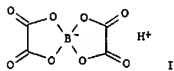
=> s l10 and tocopherol
      24328 TOCOPHEROL
      6667 TOCOPHEROLS
      26231 TOCOPHEROL
            (TOCOPHEROL OR TOCOPHEROLS)
L14      2 L10 AND TOCOPHEROL

=> s l14 not l2
L15      2 L14 NOT L2

=> d ibib abs hitstr 1-2
```

L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:212643 CAPLUS
 DOCUMENT NUMBER: 130:251938
 TITLE: Hydrogen bis(oxalato)
 borate as catalyst for condensation reactions
 INVENTOR(S): Fuerbringer, Claude
 PATENT ASSIGNEE(S): Roche Vitamins Inc., USA
 SOURCE: U.S., 4 pp.
 COOEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5886196	A	19990323	US 1996-768680	19961218
CN 1161251	A	19971008	CN 1997-102008	19970108
JP 09192493	A2	19970729	JP 1997-1788	19970109
PRIORITY APPLN. INFO.:		CH 1996-96		A 19960112
OTHER SOURCE(S):		CASREACT 130:251938		
GI				



AB The title compd. (I) is used as a protonic acid catalyst in condensation reactions, e.g., Friedel-Crafts condensations, vinyl ether condensations of acetals with vinyl or propenyl ethers and acylations of phenols. The products of such condensations are, e.g., dihydro-vitamin K1 monobenzoate, d,l.-alpha.-tocopherol, various intermediates in the synthesis of carotenoids, and d,l.-alpha.-tocopherol acetate. I has advantages with respect to selectivity, yields, amts. required and working-up after completion of the resp. condensation and the use of I alleviates the problems assocd. with corrosion, toxicity and environmental contamination. For example, condensation of 4-hydroxy-2-methyl-1-naphthalenyl benzoate with isophytol at 98.degree. in PhMe in the presence of I [prepn. from (CO2H)2 and B2O3 given] gave 80% 4-hydroxy-2-methyl-3-[(E)-3,7,11,15-tetramethylhexadec-2-enyl]-1-naphthalenyl benzoate.

REFERENCE COUNT: 7
 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1997:552632 CAPLUS
 DOCUMENT NUMBER: 127:149274
 TITLE: Use of hydrogen bis(oxalato)
 borate as a condensation reaction catalyst
 INVENTOR(S): Fuerbringer, Claude
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.
 SOURCE: Eur. Pat. Appl., 5 pp.
 CODEN: EPOXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 784042	A1	19970716	EP 1997-100109	19970107
R: AT, BE, CH, DE, UK, ES, FR, GB, IT, LI, NL				
CN 1161251	A	19971008	CN 1997-102008	19970108
JP 09192493	A2	19970729	JP 1997-1788	19970109
PRIORITY APPLN. INFO.:		CH 1996-96		A 19960112
OTHER SOURCE(S):		CASREACT 127:149274		

AB Hydrogen bis(oxalato)borate (I) is used as a catalyst in condensation reactions, such as Friedel-Crafts reactions, vinyl ether condensations, acylations, esp. in the prepn. of dihydro-vitamin K1, d,l.-alpha.-tocopherol and its acetate. Thus, trimethylhydroquinone is condensed with isophytol in presence of I to give 92% d,l.-alpha.-tocopherol, which is acetylated in 92% yield in presence of I.

=> d his

(FILE 'HOME' ENTERED AT 08:13:22 ON 10 FEB 2003)

FILE 'REGISTRY' ENTERED AT 08:13:28 ON 10 FEB 2003

E TRIS(OXALATO)PHOSPHATE

L1 3 S E3

FILE 'CAPLUS' ENTERED AT 08:15:34 ON 10 FEB 2003

L2 2 S TRIS OXALATO PHOSPHATE

L3 2 S L1

L4 0 S L3 NOT L2

L5 783840 S CATALYST

L6 4526 S L5 AND BORATE

L7 450 S L6 AND PHOSPHATE

L8 0 S L7 AND TOCOPHEROL

L9 0 S L2 AND PHOSPHATE III

L10 17 S BIS OXALATO BORATE

L11 1 S L1 AND CATALYST

L12 3 S L10 AND CATALYST

L13 0 S L2 AND BIS OXALATO BORATE

L14 2 S L10 AND TOCOPHEROL

L15 2 S L14 NOT L2

=> s l2 and tocopherol

24328 TOCOPHEROL

6667 TOCOPHEROLS

26231 TOCOPHEROL

(TOCOPHEROL OR TOCOPHEROLS)

L16 1 L2 AND TOCOPHEROL

=> d

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:573361 CAPLUS
 DN 137:125303
 TI Manufacture of (all-rac)-.alpha.-tocopherol
 IN Bonrath, Werner; Netscher, Thomas; Wietelmann, Ulrich
 PA Roche Vitamins A.-G., Switz.
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1227089	A1	20020731	EP 2002-764	20020114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002284776	A2	20021003	JP 2002-5681	20020115
CN 1365977	A	20020828	CN 2002-102027	20020117
US 2002161247	A1	20021031	US 2002-53297	20020117
PRAI EP 2001-101026	A	20010118		
OS CASREACT 137:125303				
RE.CNT 3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	49.99	64.46

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.60	-2.60

STN INTERNATIONAL LOGOFF AT 08:22:14 ON 10 FEB 2003

Welcome to STN International! Enter x:x

LOGINID:sssptal600rxa

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
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NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27	Oct 21	EVENTLINE has been reloaded
NEWS 28	Oct 24	BEILSTEIN adds new search fields
NEWS 29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30	Oct 25	MEDLINE SDI run of October 8, 2002

NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
 NEWS 32 Nov 25 More calculated properties added to REGISTRY
 NEWS 33 Dec 02 TIBKAT will be removed from STN
 NEWS 34 Dec 04 CSA files on STN
 NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 36 Dec 17 TOXCENTER enhanced with additional content
 NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
 NEWS 38 Dec 30 ISMEC no longer available
 NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
 NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
 NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
 ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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 NEWS INTER General Internet Information
 NEWS LOGIN Welcome Banner and News Items
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 NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:02:13 ON 10 FEB 2003

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 10:02:22 ON 10 FEB 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 10 Feb 2003 VOL 138 ISS 7
FILE LAST UPDATED: 7 Feb 2003 (20030207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s catalyst
    613081 CATALYST
    604642 CATALYSTS
L1    783840 CATALYST
        (CATALYST OR CATALYSTS)

=> s l1 and borate
    54641 BORATE
    9372 BORATES
    58405 BORATE
        (BORATE OR BORATES)
L2    4526 L1 AND BORATE

=> s l2 and phosphate
    472282 PHOSPHATE
    104411 PHOSPHATES
    513566 PHOSPHATE
        (PHOSPHATE OR PHOSPHATES)
L3    450 L2 AND PHOSPHATE

=> s l1 (l) phosphate
    472282 PHOSPHATE
    104411 PHOSPHATES
    513566 PHOSPHATE
        (PHOSPHATE OR PHOSPHATES)
L4    12320 L1 (L) PHOSPHATE

=> s l1 (l) borate
    54641 BORATE
    9372 BORATES
    58405 BORATE
        (BORATE OR BORATES)
L5    3223 L1 (L) BORATE

=> s l4 and l5
L6    282 L4 AND L5

=> s l4 (l) l5
L7    222 L4 (L) L5

=> s l4 and tris oxalato
    102177 TRIS
    2983 OXALATO
    472 TRIS OXALATO
        (TRIS(W)OXALATO)
L8    2 L4 AND TRIS OXALATO
```

=> d 18 1-2

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 2002:573361 CAPLUS
DN 137:125303
TI Manufacture of (all-rac)-.alpha.-tocopherol
IN Bonrath, Werner; Netscher, Thomas; Wietelmann, Ulrich
PA Roche Vitamins A.-G., Switz.
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1227089	A1	20020731	EP 2002-764	20020114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002284776	A2	20021003	JP 2002-5681	20020115
CN 1365977	A	20020828	CN 2002-102027	20020117
US 2002161247	A1	20021031	US 2002-53297	20020117
PRAI EP 2001-101026	A	20010118		
OS CASREACT 137:125303				
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD				
ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 2000:794721 CAPLUS
DN 134:58182
TI New method for preparing iron oxide supported on silica pillared zirconium phosphates with high surface areas
AU He, Nan; Tang, Yi; Wang, Wen-Han; Hua, Wei-Ming; Yue, Ying-Hong; Gao, Zi
CS Department of Chemistry, Fudan University, Shanghai, 200433, Peop. Rep. China
SO Huaxue Xuebao (2000), 58(10), 1259-1263
CODEN: HBHPA4; ISSN: 0567-7351
PB Kekue Chubanshe
DT Journal
LA Chinese

=> s 14 (1) tris oxalato
102177 TRIS
2983 OXALATO
472 TRIS OXALATO
(TRIS (W) OXALATO)
L9 1 L4 (L) TRIS OXALATO

=> s 19 not 18
L10 0 L9 NOT L8

=> log y		
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